

Quad Block Occupancy Detector Version 4.02 Parts List

Digi-Key catalogue numbers are provided for each part.

Circuits4Tracks can supply individual parts where needed. Send an email to circuits@daxack.ca for information.

Part Number	Description	Digi-Key Number
B1 - B4 standard: high-current:	RS402L bridge rectifiers KBU8G or KBU800 bridge rectifiers	RS402BPMS-ND KBU8GGN-ND
Q1 - Q4	2N3904 NPN transistors	2N3904FS-ND
R1, R3, R5, R7	10 ohm, 1/4 watt resistors	CF14JT10R0CT-ND
R2, R4, R6, R8	2700 ohm, 1/4 watt resistors	CF14JT2K70CT-ND
U1 - U4	MCT6 opto-coupler	MCT6-ND
C1 - C4	33 μ F, 35 volt electrolytic capacitors *	565-1569-ND
LED1 - LED4	3mm indicator LEDs	25-1182-ND
X1, X3	2-position screw terminals	A97996-ND
X2, X4	4-position screw terminals <i>Two 2-position screw terminal blocks may be used</i>	A97998-ND
X5	6-pin SIP header ‡	ED7206-ND

* Lower voltage capacitor may be used if driving a lower voltage circuit

‡ SIP headers with more pins may be cut to size, and are often more economical

Lower cost alternatives to the screw terminals:

Part Number	Description	Digi-Key Number
X1, X3	2-position push-in terminals	277-2518-ND
X2, X4	4-position push terminals	277-2520-ND

Optional components:

Part Number	Description	Digi-Key Number
C5 - C8	10 - 100 nF, 50 volt or greater capacitor	399-9858-2-ND 399-4151-ND
R9 - R12	10 k ohm, 1/4 watt resistors	CF14JT10K0CT-ND